

CONTENTS OF VOLUME X

ORIGINAL CONTRIBUTIONS

ARMITAGE, KENNETH B. Social Behaviour of a Colony of the Yellow-Bellied Marmot (<i>Marmota flaviventris</i>)	319
BACON, H. R., WARREN, J. M. & SCHEIN, M. W. Non-Spatial Reversal Learning in Chickens	239
BARTHOLOMEW, GEORGE A. & COLLIAS, NICHOLAS E. The Role of Vocalization in the Social Behaviour of the Northern Elephant Seal	7
BEHREND, ERIKA R. <i>see</i> WODINSKY, J.	
BERNSTEIN, I. S. Response to Nesting Materials of Wild-born and Captive-born Chimpanzees	1
BITTERMAN, M. E. <i>see</i> WODINSKY, J.	
BOND, T. C. <i>see</i> HEITMAN, H. Jr.	
BROOKSHIRE, K. H. & WARREN, J. M. The Generality and Consistency of Handedness in Monkeys	222
CARBAUGH, BLAIR T., SCHEIN, M. W. & HALE, E. B. Effects of Morphological Variations of Chicken Models on Sexual Responses of Cocks	235
CARR, W. J. & CAUL, W. F. The Effect of Castration in Rat upon Discrimination of Sex Odours	20
CAUL, W. F. <i>see</i> CARR, W. J.	
COLLIAS, NICHOLAS E. <i>see</i> BARTHOLOMEW, GEORGE A.	
DAVIS, ROGER T. <i>see</i> HEIMSTRA, NORMAN W.	
ELLIS, PEGGY E. & PEARCE, APRIL. Innate and Learned Behaviour Patterns that Lead to Group Formation in Locust Hoppers	305
EMLEN, JOHN T. Jr. <i>see</i> SCHALLER, GEORGE B.	
GOOT, H. Training Sheep for Selective Grazing	232
GREENBAUM, M. & GUNBERG, D. L. The Effect of Neonatal Hyperoxia on Sexual Arousal and Emotionality in the Male Rat	28
GRiffin, DONALD R. <i>see</i> WEBSTER, FREDERIC A.	
GUALTIEROTTI, TORQUATO. <i>see</i> SCHREIBER, B.	
GUNBERG, D. L. <i>see</i> GREENBAUM, M.	
HAHN, LEROY. <i>see</i> HEITMAN, H. Jr.	
HAILMAN, JACK P. & KLOPFER, PETER H. On Measuring "Critical Learning Periods" in Birds	233
HALE, E. B. <i>see</i> CARBAUGH, BLAIR T.	
AYASHIDA, KAZUO. <i>see</i> SAKAGAMI, S. F.	
HECKROTTE, CARLTON. The Effect of the Environmental Factors in the Locomotory Activity of the Plains Garter Snake (<i>Thamnophis radix radix</i>)	193

ANIMAL BEHAVIOUR, X

HEIMSTRA, NORMAN W. & DAVIS, ROGER T. A Simple Recording System for the Direct Observation Technique	208
HEITMAN, H. Jr., HAHN, LEROY, BOND, T. C. & KELLY, C. F. The Effects of Modified Summer Environment on Swine Behaviour	15
HENSEL, RICHARD J. <i>see</i> WILLARD, A. TROYER.	67
HINDE, R. A. & STEEL, E. A. Selection of Nest Material by Female Canaries	247
HOAR, WILLIAM S. Hormones and the Reproductive Behaviour of the Male Three-Spined Stickleback (<i>Gasterosteus aculeatus</i>)	62
HOLLIS, JOHN H. <i>see</i> MASON, WILLIAM A.	34
HUTCHINSON, J. C. D. & TAYLOR, W. W. Motor Co-ordination in Pecking Fowls	55
HUTCHINSON, J. C. D. & TAYLOR, W. W. Effect of Exposure to Heat on the Motor Co-ordination of Pecking Fowls	228
KAY, L. A Plausible Explanation of the Bat's Echo-Location Acuity	341
KELLY, C. F. <i>see</i> HEITMAN, H. Jr.	211
KLOPFER, PETER H. <i>see</i> HAILMAN, JACK P.	275
KREITH, M. <i>see</i> MARLER, P.	118
JAMES, H. Imprinting with Visual Flicker: Effects of Testosterone Cyclopentylpropionate	292
JENSEN, GORDON D., & TOLMAN, CHARLES W. Activity Level of the Mother Monkey, <i>Macaca nemestrina</i> , as Affected by Various Conditions of Sensory Access to the Infant Following Separation	126
MAINARDI, DANILO. <i>see</i> SCHREIBER, B.	244
MARLER, P., KREITH, M. & WILLIS, E. An Analysis of Testosterone-Induced Crowing in Young Domestic Cockerels	126
MASON, WILLIAM A. & HOLLIS, JOHN H. Communication Between Young Rhesus Monkeys	118
MCKINNEY, FRANK. <i>see</i> PHILLIPS, RICHARD E.	208
MONTEITH, L. G. Apparent Continual Changes in the Host Preferences of <i>Drino bohemica</i> Mesn. (Diptera: Tachinidae), and Their Relation to the Concept of Host-Conditioning	67
MORTON, J. E. Habit and Orientation in the Small Commensal Bivalve Mollusc, <i>Montacuta ferruginosa</i>	208
NORRIS, MAUD J., Ph.D. (Mrs. O. W. RICHARDS). Group Effects on the Activity and Behaviour of Adult Males of the Desert Locust (<i>Schistocerca gregaria</i> Forsk.) in Relation to Sexual Maturation	15
PEARCE, APRIL. <i>see</i> ELLIS, PEGGY E.	15
PHILLIPS, RICHARD E. & MCKINNEY, FRANK. The Role of Testosterone in the Displays of Some Ducks	15
PUTNAM, C. D. The Non-Random Behaviour of <i>Aleochara bilineata</i> Gyll. (Coleoptera: Staphylinidae) in a Y-maze with neither Reward nor Punishment in either Arm	15

CONTENTS

208	REESE, ERNST S. Shell Selection Behaviour of Hermit Crabs	347
15	ROEDER, K. D. The Behaviour of Free Flying Moths in the Presence of Artificial Ultrasonic Pulses	300
67	SAKAGAMI, S. F. & HAYASHIDA, KAZUO. Work Efficiency in Heterospecific Ant Groups Composed of Hosts and Their Labour Parasites	96
247	SCHALLER, GEORGE B. & EMLEN, JOHN T. Jr. The Ontogeny of Avoidance Behaviour in Some Precocial Birds	370
55	SCHEIN, M. W. <i>see</i> BACON, H. R.	
62	SCHEIN, M. W. <i>see</i> CARBAUGH, BLAIR T.	
34	SCHREIBER, B., GUALTIEROTTI, TORQUATO & MAINARDI, DANIRO. Some Progress of Cerebellar Physiology in Migratory and Sedentary Birds	42
341	STEEL, E. A. <i>see</i> HINDE, R. A.	
228	STRIDE, GEORGE O. & WARWICK, ESME P. Ovipositional Girdling in a North American Cerambycid Beetle, <i>Mecas saturnina</i>	112
211	TAYLOR, W. W. <i>see</i> HUTCHINSON, J. C. D.	
48	TAYLOR, W. W. <i>see</i> HUTCHINSON, J. C. D.	
292	TOLMAN, CHARLES W. <i>see</i> JENSEN, GORDON D.	
126	TROYER, WILLARD A. & HENSEL, RICHARD J. Cannibalism in Brown Bear	231
275	WALLACE, G. K. Experiments on Visually Controlled Orientation in the Desert Locust, <i>Schistocerca gregaria</i> (Forskal)	361
118	WALLIS, D. I. Aggressive Behaviour in the Ant, <i>Formica fusca</i>	267
244	WALLIS, D. I. Behaviour Patterns of the Ant, <i>Formica fusca</i>	105
211	WARREN, J. M. <i>see</i> BACON, H. R.	
126	WARREN, J. M. <i>see</i> BROOKSHIRE, K. H.	
244	WARWICK, ESME P. <i>see</i> STRIDE, GEORGE O.	
292	WEBSTER, FREDERIC A. & GRIFFIN, DONALD R. The Role of the Flight Membranes in Insect Capture by Bats	332
126	WENNER, A. M. Sound Production during the Waggle Dance of the Honey Bee	79
244	WILLIS, E. <i>see</i> MARLER, P.	
275	WILSON, E. O. Chemical Communication among Workers of the Fire Ant	134
118	WODINSKY, J. BEHREND, ERIKA R. & BITTERMAN, M. E. Avoidance Conditioning in Two Species of Fish	76
244	BRIEF COMMUNICATIONS	
118	BARNES, GORDON E. The Behaviour of Unrestrained <i>Anodonta</i>	174
	BOND, T. E. <i>see</i> HEITMAN, H. Jr.	

ANIMAL BEHAVIOUR, X

ESSLER, W. O. & FOLK, G. EDGAR Jr: A Method of Determining True Resting Heart Rates of Unrestrained Mammals by Radio Telemetry	168
FOLK, EDGAR G. <i>see</i> ESSLER, W. O.	
HAHN, LEROY. <i>see</i> HEITMAN, H. Jr.	
HEITMAN, H. Jr., HAHN, LEROY, BOND, T. E. & KELLY, C. F. Continuous Versus Periodic Observations in Behaviour Studies with Swine Raised in Confinement	165
KELLY, C. F. <i>see</i> HEITMAN, H. Jr.	
MILLENSON, J. R. Acquired Counting Behaviour in Mice Maintained Under Two Reinforced Procedures	171
 PROCEEDINGS OF THE ASSOCIATION FOR THE STUDY OF ANIMAL BEHAVIOUR	
	177
	382
 PROCEEDINGS OF THE SECTION OF ANIMAL BEHAVIOR AND SOCIOBIOLOGY (ECOLOGICAL SOCIETY OF AMERICA AND THE AMERICAN SOCIETY OF ZOOLOGISTS)	
	185
	393
 BOOK REVIEWS	
BODDIE, GEORGE F. Diagnostic Methods in Veterinary Medicine	189
The CBE Style Manual	187
Cold Spring Harbor Symposia on Quantitative Biology. Vol. XXV, Biological Clocks	187
FARNSWORTH, PAUL R. (Ed.). Annual Review of Psychology, Vol 13.	397
HAFEZ, E. S. E. (Ed.). Reproduction in Farm Animals	396
KELLOGG, WINTHROP N. Porpoises and Sonar	396
KEVAN, D. K. MCE. Soil Animals	188
JENKIN, PENELOPE M. Animal Hormones: A Comparative Survey. Part I, Kinetic and Metabolic Hormones	188
MORRIS, DESMOND. The Biology of Art: A Study of the Picture-Making Behaviour of the Great Apes and its Relationship to Human Art	188
POOL, W. A. (Ed.). The Veterinary Annual	189

This journal is copyright. It may not be reproduced by any means, in whole or in part, without permission. Applications with regard to reproduction should be addressed to the Publishers.

PRINTED IN GREAT BRITAIN
BY WELLINGTON PRINTERS
WELLINGTON, SOMERSET

168

165

171

177
382

185
393

189

187

187

397

396

396

188

188

188

189

out